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SERVICE AND REGULATORY ANNOUNCEMENT

BUREAU OF PLANT INDUSTRY

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ADULTERATIONS AND MISBRANDING OF SEED OF KENTUCKY BLUEGRASS, ORCHARD GRASS, REDTOP, AND HAIRY VETCH IN 1925

During the calendar year 1925 seed of Kentucky bluegrass, orchard grass, redtop, and hairy vetch was procured in the open market in accordance with the following paragraph in the act of Congress making appropriations for the United States Department of Agriculture:

> Where such samples [seeds of grasses, clover, or alfalfa, and lawn-grass seeds secured in the open market] are found to be adulterated or misbranded, the results of the tests shall be published, together with the names of the persons by whom the seeds were offered for sale.

In carrying out the provisions of this act 1,457 mail samples and 411 purchased lots of seed were obtained. These were examined in the Seed-Testing Laboratory of the Bureau of Plant Industry and publication is here made of the results of the analyses of the samples found to be adulterated or misbranded, together with the names of the seedsmen by whom they were sold or offered for sale.

Of the 262 mail samples and 74 purchased lots of hairy-vetch seed obtained none were found to be either adulterated or misbranded.

Of the 495 mail samples and 102 purchased lots of Kentucky bluegrass seed obtained 23 lots were found to be either adulterated or misbranded. Canada bluegrass was the chief constituent of 18 lots. (See Table 1.)

Of the 300 mail samples and 90 purchased lots of orchard-grass seed obtained 16 lots were found to be either adulterated or misbranded. (See Table 2.)

Of the 400 mail samples and 145 purchased lots of redtop seed obtained 27 lots were found to be either adulterated or misbranded. (See Table 3.)

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TABLE 1.—*Results of tests of samples of seed obtained in the open market as Kentucky bluegrass seed and found to be adulterated or misbranded*

Seed offered for sale or sold as Kentucky bluegrass seed by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples			
Name of dealer	Address		Kentucky bluegrass seed	Canada bluegrass seed	Other seeds	Dirt and chaff
			Per cent	*Per cent*	*Per cent*	*Per cent*
Clossman Hardware Co	Zanesville, Ohio	Purchase (bulk)	0.79	87.49	0.76	10.96
Do	do	Mail (sample)	.90	89.14	.89	9.07
U. J. Cover	Mount Gilead, Ohio	Purchase (bulk)	1.40	86.00	3.24	9.36
Everitt's Seed Store	227 West Washington Street, Indianapolis, Ind.	do	.50	82.26	1.24	16.00
J. C. Haile & Sons	215 Walnut Street, Cincinnati, Ohio.	do	45.46	23.94	1.94	28.66
Hayes Seed House	601 North Kansas Avenue, Topeka, Kans.	do	55.75	0	[1] 22.79	21.46
Do	do	Mail (sample)	58.88	0	[2] 25.94	15.18
Klass Seed Store	Columbia, Mo	Purchase (bulk)	1.80	80.02	1.81	16.37
Do	do	Mail (sample)	1.05	86.10	.55	12.30
North American Seed Co	Milwaukee, Wis	Purchase (bulk)	1.25	81.45	1.58	15.72
Do	do	Mail (sample)	1.26	77.23	1.04	20.47
P. Fred'k Obrecht & Son	1123 Light Street, Baltimore, Md.	Purchase (bulk)	1.69	78.79	.60	18.92
Do	do	Mail (sample)	4.76	75.88	.96	18.40
Plant Seed Co	802 North Main Street, St. Louis, Mo.	Purchase (bulk)	49.77	12.99	2.53	34.71
Do	do	Mail (sample)	52.78	9.63	1.95	35.64
Russell-Heckle Seed Co	26 South Front Street, Memphis, Tenn.	Purchase (bulk)	1.37	83.95	1.86	12.82
Do	do	Mail (sample)	.98	80.87	1.30	16.85
Swartwout & Shaver	4 East Genessee Street, Auburn, N. Y.	Purchase (bulk)	.87	85.81	3.07	10.25
Do	do	Mail (sample)	.80	87.69	3.29	8.22
Tucker-Mosby Seed Co	60 South Front Street, Memphis, Tenn.	Purchase (bulk)	.27	90.45	1.84	7.44
Do	do	Mail (sample)	1.31	86.30	2.95	9.44
Job P. Wyatt & Sons Co	Raleigh, N. C	Purchase (bulk)	1.43	77.83	6.27	14.47
Do	do	Mail (sample)	.25	82.79	6.31	10.65

[1] Redtop, 22.06 per cent. [2] Redtop, 22.84 per cent.

TABLE 2.—*Results of tests of samples of seed obtained in the open market as orchard-grass seed and found to be adulterated or misbranded*

Seed offered for sale or sold as orchard-grass seed by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples			
Name of dealer	Address		Orchard-grass seed	Rye grass or meadow fescue or both	Other seeds	Dirt and chaff
			Per cent	*Per cent*	*Per cent*	*Per cent*
J. P. Barstow & Co	23 Water Street, Norwich, Conn.	Purchase (bulk)	0	12.98	[1] 67.59	19.43
Do	do	Mail (sample)	0	18.25	[2] 61.00	20.75
Cashman Seed Co	Owatonna, Minn	Purchase (bulk)	0	98.60	.24	1.16
Do	do	Mail (sample)	0	98.06	.60	1.34
Do	do	Purchase (bulk)	1.35	97.30	.19	1.16
Do	do	Mail (sample)	0	98.27	.59	1.14
Fargo Seed House	Fargo, N. Dak	Purchase (bulk)	0	94.10	3.69	2.21
Hayes Seed House	601 North Kansas Avenue, Topeka, Kans.	do	0	89.85	6.41	3.74
Iowa Seed Co	209 Walnut Street, Des Moines, Iowa.	do	49.98	34.31	9.63	6.08
Do	do	Mail (sample)	44.19	35.61	7.03	13.17
People's Forwarding Co	52 West First South Street, Salt Lake City, Utah.	Purchase (bulk)	57.79	32.16	1.40	8.65
Allen G. Quynn	Frederick, Md	do	57.74	0	[4] 24.08	18.18
Southern Seed and Supply Co.	23 North Alabama Street, Indianapolis, Ind.	do	52.61	34.91	1.17	11.31
Do	do	Mail (sample)	0	0	[3] 91.57	8.43
Stoecker Seed Co	223 South Washington Street, Peoria, Ill.	Purchase (bulk)	0	91.17	4.88	3.95
Do	do	Mail (sample)	0	81.64	6.46	11.90

[1] Timothy, 33.03 per cent; redtop, 27.97 per cent.
[2] Timothy, 38.14 per cent; redtop, 15.47 per cent.
[3] Redtop, 84.98 per cent.
[4] Kentucky bluegrass, 23.19 per cent.

TABLE 3.—*Results of tests of samples of seed obtained in the open market as redtop seed and found to be adulterated or misbranded*

Seed offered for sale or sold as redtop seed by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples			
Name of dealer	Address		Redtop seed	Timothy seed	Other seeds	Dirt and chaff
			Per ct.	*Per ct.*	*Per ct.*	*Per ct.*
Bailey & Sons Co	Corner Fifth South and Third West Streets, Salt Lake City, Utah.	Purchase (bulk)	84.00	5.59	0.40	10.01
Do	do	Mail (sample)	82.88	6.41	.27	10.44
Do	do	Purchase (bulk)	84.05	5.82	.44	9.69
Do	do	Mail (sample)	82.70	6.29	.39	10.62
Bomberger Seed Co	Modesto, Calif	Purchase (bulk)	63.65	10.74	2.38	23.23
Henry Campbell	Seward, Nebr	do	15.16	80.83	.34	3.67
Do	do	Mail (sample)	24.15	68.89	1.13	5.83
Cottongim's Seed Store	75 South Broad Street, Atlanta, Ga.	Purchase (bulk)	77.20	5.89	4.76	12.15
Do	do	Mail (sample)	76.00	6.19	5.03	12.78
Crabbs Reynolds Taylor Co.	Crawfordsville, Ind	Purchase (bulk)	61.27	20.85	4.78	13.10
Curry-Arrington Co	Rome, Ga	do	76.23	7.66	2.50	13.61
Do	do	Mail (sample)	75.34	7.63	2.16	14.87
The S. M. Fleming Co	Franklin, Tenn	Purchase (bulk)	66.33	12.92	3.49	17.26
Do	do	Mail (sample)	73.45	8.95	1.32	16.28
Henry Field Seed Co	Shenandoah, Iowa	Purchase (bulk)	73.53	10.71	2.92	12.84
Klass Seed Store	Columbia, Mo	do	62.32	22.54	.70	14.44
J. G. Peppard Seed Co	1101 West Eighth Street, Kansas City, Mo.	do	68.41	15.93	2.57	13.09
Do	do	Mail (sample)	72.56	10.04	2.67	14.73
Petersen Seed Co	709 Carroll Street, St. Louis, Mo.	Purchase (bulk)	63.92	21.52	2.29	12.27
Do	do	Mail (sample)	64.14	21.98	1.79	12.09
Rudy-Patrick Seed Co	Northeast corner Ninth and Santa Fe Streets, Kansas City, Mo.	Purchase (bulk)	75.79	6.01	1.72	16.48
Do	do	Mail (sample)	64.72	12.46	1.15	21.67
Rocky Mountain Seed Co.	1325 Fifteenth Street, Denver, Colo.	Purchase (bulk)	74.56	10.92	3.02	11.50
Do	do	Mail (sample)	71.34	14.00	3.08	11.58
McVay's Seed Store	2117 Third Avenue, Birmingham, Ala.	Purchase (bulk)	65.74	6.73	1.97	25.56
Do	do	Mail (sample)	68.55	6.21	1.79	23.45
Western Seed House	Salina, Kans	Purchase (bulk)	77.21	8.63	2.58	11.58

The Bureau of Plant Industry of the United States Department of Agriculture will continue to examine and report promptly as to the presence of adulterants and dodder in any sample of seed submitted for that purpose. According to the location of the sender, these samples may be submitted to the Seed-Testing Laboratory at Washington, D. C., or to any of the following laboratories maintained through the cooperation of this department: Cooperative Seed-Testing Laboratory, California State Department of Agriculture, 1217 L Street, Sacramento, Calif.; Cooperative Seed-Testing Laboratory, Oregon Agricultural College, Corvallis, Oreg.; Cooperative Seed-Testing Laboratory, Purdue University Agricultural Experiment Station, La Fayette, Ind.; Cooperative Seed-Testing Laboratory, Missouri Agricultural Experiment Station, Columbia, Mo.

Approved.

W. M. JARDINE,
Secretary of Agriculture.

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